

LIQUID PHOSPHOROUS PRECURSOR DELIVERY APPARATUS

ABSTRACT OF THE DISCLOSURE

5 The present invention recognizes that the build-up of residue in a metal alloy injection valve used to inject a liquid phosphorous precursor compound is due to the nickel in the alloy affecting the liquid phosphorous precursor compound. The invention thus provides components manufactured of an alloy having a low nickel content, preferably less than 5% nickel, and more preferably less than 1%. In an additional aspect of the invention, the alloy is provided with a higher chromium content, preferably
10 at least 15% chromium, more preferably 16-27%.